



Jaya Engineering College



Approved by AICTE, New Delhi.
Affiliated to Anna University, Chennai
Accredited by NAAC & NBA



International Conference on Innovative Technologies & Engineering (ICITE-2K25) (Hybrid Mode)

Organised By

Departments of IT, CSE & MCA

On

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PROCEEDINGS



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Message from Chairman



Prof Dr.A.Kanagaraj

It is with great pride and joy that I welcome all delegates, researchers, academicians, and professionals to the International Conference on Innovative Technologies and Engineering – ICITE-2K25. At Jaya Engineering College, we are committed to fostering innovation, research, and collaboration across disciplines. This conference exemplifies our ongoing mission to create platforms that encourage knowledge sharing and inspire technological advancements. ICITE- 2K25 brings together brilliant minds to exchange ideas, explore new frontiers, and address the pressing challenges of our time. I believe such gatherings not only drive academic excellence but also strengthen the bonds between institutions, industries, and communities. I sincerely thank the organizing committee for their dedication and all participants for their valuable contributions. May this conference serve as a catalyst for meaningful dialogue, enduring partnerships, and groundbreaking innovations. Wishing you all a productive and inspiring experience at ICITE-2K25.

Prof. Dr. A.Kanagaraj

Chairman

Jaya Educational Trust

Message from Vice Chairman



Er. K. Navaraj, M.Tech., (Ph.D.)

It is with great pride and pleasure that I extend my warmest greetings to all the eminent speakers, researchers, industry experts, academicians, and participants gathered for this prestigious International Conference on Innovative Technologies and Engineering (ICITE-2K25). This conference serves as a dynamic platform where pioneering ideas, cutting-edge technologies, and transformative engineering solutions converge to address the evolving challenges of our modern world.

The theme of this conference resonates strongly with the global call for smarter, inclusive, and sustainable technological advancements. I am confident that the insights and outcomes emerging from these deliberations will not only enhance academic and industrial landscapes but also contribute meaningfully to global development.

I commend the organizers for their vision and dedication in bringing together such a distinguished and diverse group of thought leaders. I also express my sincere appreciation to all contributors whose work and commitment embody the spirit of innovation and excellence.

May this conference ignite new collaborations, spark innovative thinking, and lay the groundwork for future achievements in science and engineering.

Er.K.Navaraj

Vice Chairman

Jaya Educational Trust

Message from Joint Secretary

Dr. K.Dheena

I am honored to extend my warmest greetings to all of you on the occasion of ICITE-2K25, our annual celebration of innovation and excellence. As Joint Secretary of Jaya Educational Trust, I am deeply proud of the passion and dedication that our community brings to this event each year. ICITE-2K25, scheduled to take place on March 28th, promises to be a day filled with inspiration, learning, and collaboration. It is a testament to our commitment to fostering a culture of innovation and creativity among our students and faculty members. This event serves as a platform for us to showcase our collective achievements, share knowledge, and explore new frontiers in technology and academia.

The work presented here will undoubtedly inspire new discussions, provoke thought, and spark the curiosity of future researchers. It is my sincere hope that these proceedings will serve as a catalyst for further exploration, innovation, and collaboration in the coming years.

I extend my sincere appreciation to the organizing committee for their tireless efforts in making ICITE-2K25 a reality. To the participants, I offer my best wishes for success, and to the faculty members and staff, I express my gratitude for your continued dedication and support. May ICITE-2K25 inspire us all to reach new heights of excellence and innovation.

Dr.K.Dheena
Joint Secretary
Jaya Educational Trust

Message from Director (Academics)



Dr.S.Suyambazhahan, ME., Ph.D.

It is with great enthusiasm that I welcome all participants to the International Conference on Innovative Technologies and Engineering ICITE-2K25. This conference reflects our institution's strong emphasis on academic excellence, research-driven learning, and interdisciplinary collaboration. At Jaya Engineering College, we continuously strive to create opportunities that foster innovation and inspire the academic community to engage with emerging technologies and real-world challenges. ICITE-2K25 is a significant step in that direction - a platform where diverse perspectives converge to explore ideas that shape the future of engineering and science. I extend my appreciation to the organizing committee for curating a program that promotes deep intellectual engagement and thank all researchers, presenters, and attendees for their valuable contributions. I encourage each participant to make the most of this opportunity to learn, share, and network. Wishing you all a productive and enlightening experience at ICITE- 2K25.

Dr.S.Suyambazhahan

Director

Jaya Group of Institutions

Message from Dean - Research



Dr.M.Somasundaram, M.Tech., Ph.D.,

This international conference(ICITE-2K25) brings together leading scholars, researchers, practitioners, and students from around the world to share their latest findings, exchange ideas, and foster meaningful collaborations. The diversity of perspectives represented here is a true testament to the global nature of our field and the importance of collective progress.

We are proud to host this gathering of minds and to provide a platform for robust dialogue, innovative thinking, and forward-looking solutions. I commend the organizing committee for their dedication and hard work in making this event a reality, and I thank each of you for your valuable contributions. May this conference be an inspiring and enriching experience for all. I encourage you to take full advantage of the sessions, connect with fellow participants, and enjoy the cultural and academic offerings of our institution and host city.

Dr.M.Somasundaram

Dean-Research

Jaya Group of Institutions

Message from Principal



Dr.V.Suresh Kumar, ME., Ph.D.,

I am delighted to acknowledge the commendable initiative taken by the Department of Information Technology in publishing the proceedings of their “ICITE-2K25.” I am confident that this conference will serve as a valuable platform for students to exchange knowledge and insights in the field of Information Technology, offering an enriching and enlightening experience for all participants. I extend my heartfelt congratulations to the faculty and students of the IT, CSE, MCA department whose dedication and efforts were instrumental in the successful preparation of this proceeding. I sincerely wish “ICITE-2K25” a grand success and hope it continues to inspire and foster innovation in the years to come.

Dr.V.Suresh kumar
Principal
Jaya Engineering College

Message from Vice Principal



Dr.S.Rajendran, ME., Ph.D.,

International Conference on Innovative Technologies and Engineering –ICITE-2K25 It gives me immense pleasure to welcome all delegates, researchers and professionals to ICITE- 2K25. This conference stands as a testament to our collective dedication to innovation, collaboration and the pursuit of sustainable technological progress. I extend my heartfelt appreciation to the organizing team for their hard work and commitment and I thank all contributors whose efforts have made this conference a dynamic platform for meaningful knowledge exchange. Wishing you all a productive, enriching and inspiring experience at ICITE-2K25.

Dr.S.Rajendran

Vice Principal

Jaya Engineering College

Message from Convener



Dr.V.Seedha Devi, ME., Ph.D.,

Expanding the horizons of technical knowledge has always been a key aspiration of our team. As the Convener of this conference, it is my proud privilege to support my dedicated faculty and students in achieving this goal through the publication of the Technical Magazine in conjunction with “ICITE-2K25.”

At the Department of Information Technology, we believe that every meaningful endeavor, whether by an individual or a team, deserves due recognition. This work is undoubtedly a testament to the genuine passion and dedicated performance demonstrated by our team. I take this opportunity to congratulate them on this remarkable achievement, which reflects their commitment to excellence, innovation and leadership.

Dr.V.Seedha Devi

HOD / IT

Jaya Engineering College

Message from Co-Convener



Dr.D.Balasubramanian, M.Phil., Ph.D.,

I am delighted in acknowledging the Inter National Conference on Innovative Technologies & Engineering -ICITE 2K25 by IT, CSE & MCA Department by the Jaya Engineering College, Chennai. The conference aims to bridge the researchers working in academia and other professionals through research presentations and keynote addresses in current technological trends. Furthermore, this conference will also facilitate the participants to expose and share various novel ideas. I take this opportunity to thank all the members of the organizing committee for their sincere and dedicated efforts to make this conference as a live and intellectual forum. You will get ample opportunities to widen your knowledge and network. I thank the conference committee for extending their valuable time in organizing the program and all the authors, reviewers, and other contributors for their sparkling efforts and their belief in the excellence of ICITE 2K25.

Dr.D.Balasubramaniyam

HOD / MCA

Jaya Engineering College

**JAYA
ENGINEERING
COLLEGE**

About The Institution

Jaya Engineering College (JEC), established in 1995, is a permanently affiliated with Anna University, Chennai, and approved by AICTE, New Delhi. It is a part of the Jaya Group of Institutions, which includes 30 institutions across Engineering, Medical, Agriculture, Arts & Science and other fields. JEC is NAAC accredited and 2 programmes (B.E.CSE & B.Tech. Textile) have been accredited by NBA. It is a recognized Nodal Centre for MSME Startups under both Central and State Government Initiatives, with CSE and IT departments specifically serving as innovation hubs. The college actively collaborates with ICTACT. JEC is a proud participant in the Naan Mudhalvan program and hosts several courses and events to enhance student skills. Offering 13 UG and 8 PG programs, JEC provides a modern academic environment with advanced labs, digital infrastructure, and experienced faculty, ensuring holistic development in both technical and soft skills. Our students actively participating and winning in various hackathons conducted in international level like Japan, Singapore, Taiwan, etc.

Vision of the Institution

To achieve Excellence in Technical Education through Innovative Teaching and Multidisciplinary Research with Professionalism to Serve the Global Society.

Mission of the Institution

1. To Impart High Quality Teaching and Learning for Engineering, Technology and Management Studies by providing State-of-art-infrastructure.
2. To Provide Quality Education, Self-discipline and Ethical values.
3. To Associate with R&D and Industries to have Connectivity with the Society.
4. To Impart Knowledge to become Empowered Professionals in the field of Engineering and Management.

**DEPARTMENT OF
INFORMATION
TECHNOLOGY**

About Department

The Department of IT was started in the year 1998. The department offers four-year B.Tech. Course with an intake of 120 Students. The department has distinguished, dedicated and specialized faculties in different areas of IT with rich experience in Academics, Industries and Research. The Department has well-equipped and spacious laboratories with modern computer equipment. The department regularly conducts various seminars and workshops in emerging topics frequently. The campus area networking with round the clock internet connectivity is looked after by the department of IT. The faculty members of IT are engaged in various research projects in innovating the new technologies.

Vision of the Department

To bridge the gap between the academicians and the industry. To impart quality education through innovative teaching and learning methods.

Mission of the Department

To develop employable software developing graduates with knowledge, skills and ethics; provide them with the professional and soft skills necessary to lead a successful career.

**DEPARTMENT OF
COMPUTER
SCIENCE AND
ENGINEERING**

About The Department

The Department of Computer Science and Engineering (CSE) was established in the year 1995 with the mission to educate students from all over India, including those from rural areas, so that they become enlightened individuals, improving the living standards of their Families, Industry and Society. CSE shares the mission and vision of the institute in imparting high-quality education to the students and the department is accredited by the National Board of Accreditation (NBA) in the year 2006 and 2011. The Department has the state-of-the-art facilities for various laboratories, a well-equipped seminar hall, Wi-Fi enabled class rooms to support e-Learning, and a department library. The Department of Computer Science and Engineering, with a collective experience of teaching 2400 students and 28,800 man-hours supported by the team of 6 technical experts Council with 28 faculty members. The department has enough power to deliver the ambitious requirement of producing a complete engineer. The computing facilities consists of 16 Mbps OFC backbone with 1025 Intel systems on hierarchical topology with a watch guard firewall running on Ubuntu 15.4 and Fedora with more than 100 tools installed enough for a modern incubation center of industry standards.

Vision of the Department

To achieve Excellence in Computer Science and Engineering by providing quality technical education to cater the need of industry and society through research and development.

Mission of the Department

The Computer Science and Engineering Department is committed to

- M1-Provide strong fundamentals and technical skills in Computer Science Engineering through effective teaching and learning methods.
- M2-Impart high quality experiential learning to get expertise in modern software tools and to procure the real timer requirements of the industry.
- M3-Inculcate problem solving and team building skills and promote lifelong learning with a sense of societal and ethical responsibilities.

**DEPARTMENT OF
MASTER OF
COMPUTER
APPLICATIONS**

About The Department

The MCA Department was started in the year 1997. The department offers three-year MCA Course. The department has a team of highly qualified, dedicated and motivated faculty and well-equipped laboratories. The department aim is to provide the students with a perfect blend of intellectual and practical experiences that helps them to serve our society and address a variety of needs. The department plan academic courses and projects to endow students with the ability to apply knowledge of developing the software, and the capability to work effectively in multidisciplinary teams, providing leadership and technical expertise. Project topics focus on Cloud Computing, Mobile Computing and Networking.

Vision of the Department

To nurture Versatile and Skilled Techniques with Moral Values

Mission of the Department

The Computer Science and Engineering Department is committed to

- **M1** To Infuse ethical, social and leadership qualities through innovative activities.
- **M2** To bridge the gap between industry and academia through alumni support.
- **M3** To mould students with formal theoretical and practical knowledge.

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